

SEQUENCE LISTING

<110> SADHU, Chanchal et al.

<120> INHIBITORS OF HUMAN PHOSPHATIDYLINOSITOL 3-KINASE DELTA

<130> 27866/36170C

<140> To be determined

<141> 2001-10-19

<150> 09/841,341

<151> 2001-04-24

<150> 60/199,655

<151> 2000-04-25

<150> 60/238,057

<151> 2000-10-25

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<170> PatentIn version 3.0

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Val	Ile	Glu	Lys	Ala	Lys	Lys	Ala	Arg	Ser	Thr	Lys	Lys	Lys	Ser	Lys		
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Lys	Ala	Asp	Cys	Pro	Ile	Ala	Trp	Ala	Asn	Leu	Met	Leu	Phe	Asp	Tyr		
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Val	Pro	Asp	Glu	Lys	Gly	Glu	Leu	Leu	Asn	Pro	Thr	Gly	Thr	Val	Arg		
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Ser	Asn	Pro	Asn	Thr	Asp	Ser	Ala	Ala	Leu	Leu	Ile	Cys	Leu	Pro			
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Ser Pro Leu Asp Pro Ser Thr Leu Leu Ala Glu Val Cys Val Glu Gln			
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Cys Thr Phe Met Asp Ser Lys Met Lys Pro Leu Trp Ile Met Tyr Ser			
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Asn Glu Glu Ala Gly Ser Gly Gly Ser Val Gly Ile Ile Phe Lys Asn			
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Tyr Gly Cys Leu Pro Thr Gly Asp Arg Thr Gly Leu Ile Glu Val Val			
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ctc cgt tca gac acc atc gcc aac atc caa ctc aac aag agc aac atg			2727
Leu Arg Ser Asp Thr Ile Ala Asn Ile Gln Leu Asn Lys Ser Asn Met			
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gca gcc aca gcc gcc ttc aac aag gat gcc ctg ctc aac tgg ctg aag			2775
Ala Ala Thr Ala Ala Phe Asn Lys Asp Ala Leu Leu Asn Trp Leu Lys			
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Ser Lys Asn Pro Gly Glu Ala Leu Asp Arg Ala Ile Glu Glu Phe Thr			
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Arg Gly Tyr Cys Glu Arg Ala Tyr Thr Ile Leu Arg Arg His Gly Leu			
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Asn Glu Ala Leu Arg Glu Ser Trp Lys Thr Lys Val Asn Trp Leu				
gcc cac aac gtg tcc aaa gac aac agg cag tagtggctcc tcccagccct	1035	1040		3347
Ala His Asn Val Ser Lys Asp Asn Arg Gln				
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Pro Glu Ala Tyr Val Phe Thr Cys Ile Asn Gln Thr Ala Glu Gln Gln			
65	70	75	80

Glu Leu Glu Asp Glu Gln Arg Arg Leu Cys Asp Val Gln Pro Phe Leu			
85	90	95	

Pro Val Leu Arg Leu Val Ala Arg Glu Gly Asp Arg Val Lys Lys Leu			
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130 135 140

Gln Phe Cys Glu Glu Ala Ala Arg Arg Gln Gln Leu Gly Trp Glu
145 150 155 160

Ala Trp Leu Gln Tyr Ser Phe Pro Leu Gln Leu Glu Pro Ser Ala Gln
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Thr Trp Gly Pro Gly Thr Leu Arg Leu Pro Asn Arg Ala Leu Leu Val
180 185 190

Asn Val Lys Phe Glu Gly Ser Glu Glu Ser Phe Thr Phe Gln Val Ser
195 200 205

Thr Lys Asp Val Pro Leu Ala Leu Met Ala Cys Ala Leu Arg Lys Lys
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Ala Thr Val Phe Arg Gln Pro Leu Val Glu Gln Pro Glu Asp Tyr Thr
225 230 235 240

Leu Gln Val Asn Gly Arg His Glu Tyr Leu Tyr Gly Asn Tyr Pro Leu
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Cys Gln Phe Gln Tyr Ile Cys Ser Cys Leu His Ser Gly Leu Thr Pro
260 265 270

His Leu Thr Met Val His Ser Ser Ser Ile Leu Ala Met Arg Asp Glu
275 280 285

Gln Ser Asn Pro Ala Pro Gln Val Gln Lys Pro Arg Ala Lys Pro Pro
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Pro Ile Pro Ala Lys Lys Pro Ser Ser Val Ser Leu Trp Ser Leu Glu
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Glu Arg Met Lys Leu Val Val Gln Ala Gly Leu Phe His Gly Asn Glu
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Thr Asp Ser Ala Ala Ala Leu Leu Ile Cys Leu Pro Glu Val Ala Pro
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His Pro Val Tyr Tyr Pro Ala Leu Glu Lys Ile Leu Glu Leu Gly Arg
485 490 495

His Ser Glu Cys Val His Val Thr Glu Glu Glu Gln Leu Gln Leu Arg
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Glu Ile Leu Glu Arg Arg Gly Ser Gly Glu Leu Tyr Glu His Glu Lys
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Asp Leu Val Trp Lys Leu Arg His Glu Val Gln Glu His Phe Pro Glu
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Ala Leu Ala Arg Leu Leu Val Thr Lys Trp Asn Lys His Glu Asp
545 550 555 560

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565 570 575

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580 585 590

Gly Ser Phe Ala Ile Lys Ser Leu Arg Lys Leu Thr Asp Asp Glu Leu
595 600 605

Phe Gln Tyr Leu Leu Gln Leu Val Gln Val Leu Lys Tyr Glu Ser Tyr
610 615 620

Leu Asp Cys Glu Leu Thr Lys Phe Leu Leu Asp Arg Ala Leu Ala Asn
625 630 635 640

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Val Pro Ser Val Ala Leu Arg Phe Gly Leu Ile Leu Glu Ala Tyr Cys
660 665 670

Arg Gly Ser Thr His His Met Lys Val Leu Met Lys Gln Gly Glu Ala
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Leu Ser Lys Leu Lys Ala Leu Asn Asp Phe Val Lys Leu Ser Ser Gln
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Lys Thr Pro Lys Pro Gln Thr Lys Glu Leu Met His Leu Cys Met Arg
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Gln Glu Ala Tyr Leu Glu Ala Leu Ser His Leu Gln Ser Pro Leu Asp
725 730 735

Pro Ser Thr Leu Leu Ala Glu Val Cys Val Glu Gln Cys Thr Phe Met
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Asp Ser Lys Met Lys Pro Leu Trp Ile Met Tyr Ser Asn Glu Glu Ala
755 760 765

Gly Ser Gly Ser Val Gly Ile Ile Phe Lys Asn Gly Asp Asp Leu
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Arg Gln Asp Met Leu Thr Leu Gln Met Ile Gln Leu Met Asp Val Leu
785 790 795 800

Trp Lys Gln Glu Gly Leu Asp Leu Arg Met Thr Pro Tyr Gly Cys Leu
805 810 815

Pro Thr Gly Asp Arg Thr Gly Leu Ile Glu Val Val Leu Arg Ser Asp
820 825 830

Thr Ile Ala Asn Ile Gln Leu Asn Lys Ser Asn Met Ala Ala Thr Ala
835 840 845

Ala Phe Asn Lys Asp Ala Leu Leu Asn Trp Leu Lys Ser Lys Asn Pro
850 855 860

Gly Glu Ala Leu Asp Arg Ala Ile Glu Glu Phe Thr Leu Ser Cys Ala
865 870 875 880

Gly Tyr Cys Val Ala Thr Tyr Val Leu Gly Ile Gly Asp Arg His Ser
885 890 895

Asp Asn Ile Met Ile Arg Glu Ser Gly Gln Leu Phe His Ile Asp Phe
900 905 910

Gly His Phe Leu Gly Asn Phe Lys Thr Lys Phe Gly Ile Asn Arg Glu
915 920 925

Arg Val Pro Phe Ile Leu Thr Tyr Asp Phe Val His Val Ile Gln Gln
930 935 940

Gly Lys Thr Asn Asn Ser Glu Lys Phe Glu Arg Phe Arg Gly Tyr Cys
945 950 955 960

Glu Arg Ala Tyr Thr Ile Leu Arg Arg His Gly Leu Leu Phe Leu His
965 970 975

Leu Phe Ala Leu Met Arg Ala Ala Gly Leu Pro Glu Leu Ser Cys Ser
980 985 990

Lys Asp Ile Gln Tyr Leu Lys Asp Ser Leu Ala Leu Gly Lys Thr Glu
995 1000 1005

Glu Glu Ala Leu Lys His Phe Arg Val Lys Phe Asn Glu Ala Leu
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Arg Glu Ser Trp Lys Thr Lys Val Asn Trp Leu Ala His Asn Val
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Ser Lys Asp Asn Arg Gln
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<213> 5' Primer for p110beta

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